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The following work was initiated as an introduction to this phase of bio-systematics. I am grateful to the Society of Sigma Xi for a travel grant to collect most of the *Solidago* here reported and to Bob MacDonald and the U.T. Arboretum for providing space in which to grow these plants.

ASTERACEAE (COMPOSITAE)

ARTEMISIA ABSINTHIUM L. ^a(Fig. 1) n=9. Tenn., Anderson Co.; *G. Morton* 2888 (TENN, SMU).

CACALIA ARTIPLICIFOLIA L. ^a(Fig. 2) n=26. Tenn., Union Co.; *G. Morton* 2880T-5 (TENN) and *G. Morton* 2880T-6 (SMU). In both plants figures of n=24 were seen.

COREOPSIS TINCTORIA Nutt. ^a(Fig. 3) n=12. Tenn., Anderson Co.; *G. Morton* 2889 (TENN) and *G. Morton* 2890 (SMU).

EUPATORIUM PERFOLIATUM L. ^a(Fig. 4) n=10. NJ, Ocean Co.; *G. Morton* 2900 (TENN).

SOLIDAGO BICOLOR L. ^a(Fig. 5) n=9. NJ, Hunterdon Co.; *G. Morton* NJ-3 (TENN).

SOLIDAGO BRACHYPHYLLA Chapm. ^b(Fig. 6) n=18. Fla., Holmes Co.; *G. Morton* FL-9 (TENN, SMU). This is the first reported tetraploid plant for this species.

SOLIDAGO GATTINGERI Chapm. ^a(Fig. 7) n=9. Tenn., Rutherford Co.; *G. Morton* TN-37 (TENN).

SOLIDAGO JUNCEA Ait. ^a(Fig. 8) n=9. Penn., Bucks Co.; *G. Morton* 2897 (TENN) and *G. Morton* 2896 (SMU).

SOLIDAGO JUNCEA f. RAMOSA (Porter & Britt.) Fern. ^c(Fig. 9) n=9. Penn., Bucks Co.; *G. Morton* 2899 (TENN) and *G. Morton* 2898 (SMU).

SOLIDAGO ODORA Ait. ^a(Fig. 10) n=9. NJ, Ocean Co.; *G. Morton* 2901 (TENN).

SOLIDAGO PINETORUM Small ^a(Fig. 11) n=9. NC, Anson Co.; *G. Morton* NC-8 (TENN).

¹ Contribution from the Botanical Laboratory, The University of Tennessee, N. Ser. 371.

^a Species for which a similar chromosome count has been published previously.

^b Species for which a chromosome count differing from this one has been published previously.

^c Species for which no chromosome count has been published previously.

